

Earth Observing Systems Data and Information System (EOSDIS) Evolution and Development (EED) – 2

NNG14476256R

Questions and Responses Part III

120. Reference: L.19.1.3 on Page 101

Total Compensation Plan: Paragraph 5 and 6, “The offeror shall describe their approach to using award fee to motivate successful contract performance...” The two paragraphs appear to be out of place. Was it the Government's intent to place these paragraphs here?

ANSWER: It is the Government's intention for the paragraph's to be standalone evaluation criteria. They are not associated with the Total Compensation Plan.

121. Will the IT Security Plan be submitted with the proposal (Attachment G) or as indicated 30 days after contract effective date?

Answer: The IT Security Plan is to be submitted within 30 days of the contract effective date.

122. Are design documents comparable to 305-EED-001 Release 8.2 Segment/Design Specifications for the EED Contract available for ECHO, URS, EMS, PVC, VATC, and EDF?

Answer: ECHO – software architecture information can be found at:

<https://wiki.earthdata.nasa.gov/pages/viewpage.action?pageId=26543757>

URS – will be made available on the EED-2 Technical Reference Library.

EMS – is not available.

PVC, VATC, EDF are development facilities whose configurations are described in the 920-TDX series of documents applicable to each.

123. How stable are the systems used in the EED Contract?

Answer: The SDPS, ECHO, URS, Coherent Web components are considered to be very stable.

124. What is the Mean Time between failures?

Answer: We do not keep track of MTBF, but for URS the uptime over the last year averaged over all components is computed as 99.84%. For Earthdata over the last year uptime over all components averaged 99.88%. ECHO the average is 99.80%. For SDPS we do not keep an uptime metric; however, a hard crash would result in a Severity 1 NCR where the highest priority of staff would be to deploy a fix ASAP. The last Severity 1 NCR that was experienced on SDPS was in December, 2011.

125. Do the systems experience crashes? How often?

Answer: The components do not crash very often. For SDPS there has not been a Severity 1 NCR since December, 2011.

126. How many Software Discrepancy Reports are open at this time?

Answer: The Discrepancy Report Open Duration metric is meant to inform us on the length of time it takes to resolve 'important' problems. These could be Severity 1 problems, which means the system is down hard and it is the Contractor's most important short-term goal to resolve, as well as Category 1 problems which means it is important to one or more DAACs and resolution is needed prior to the next major release. We will publish a summary of open problems by major component to the EED-2 Technical Reference Library.

127. Will all open DR's and Problem Reports convey to the next contractor on EED-2?

Answer: All NCRs for the history of the program will convey to the EED-2 contractor.

128. Does the incumbent contractor utilize any hardware, software, or tools that will not convey to the follow-on contractor as GFE (software licenses and maintenance agreements)?

Answer: There may be tools that are being used in short-term prototyping/studies that would not convey. The PDUs, UPS, and HVAC equipment which supports the Riverdale environment will not convey. The software licenses and maintenance agreements would convey. These are documented in the property list. Everything in the property list would convey.

129. Is there documentation for all of the contractor's hardware, software and/or tools that will convey to the follow-on contractor?

Answer: There is property management information, showing that the item is known to the government and the contractor which indicates responsibility.

130. What is the average age of the hardware systems used in the EED Contract?

Answer: We do not keep track of average age, but generally hardware is purchased with 3 years of maintenance and at the end of those three years it is replaced with newer equipment.

131. Would NASA expect a complete refresh of hardware over the 5-year Period of Performance of EED-2?

Answer: Based on the 3 year life expectancy for computer hardware for most equipment purchased under this contract for the system, the hardware would be entirely refreshed over a 5 year period.

132. Can NASA provide the actual metrics collected on the EED-2 systems for the last two years? This would be needed as a baseline against which improvements would be demonstrated.

Answer: Please refer to the EED-2 Technical Reference Library. The metrics are provided therein.

133. Section L.17 states, "THE OFFEROR IS NOT TO PERFORM ANY ACTUAL WORK OR PRODUCE ANY DELIVERABLES ON THE REPRESENTATIVE TASK ORDERS (RTOs) IN RESPONSE TO THE RFP!" Therefore there are no requirements or architecture approach currently for the application-hosting capability rendering pricing of developing, deploying, and operating the capability without foundation. Therefore we assume that RT03-1.3.4 is not priced. Is this a correct assumption?

Answer: That is incorrect. RTO's are to be priced in accordance with L.20 Cost Volume. However, the Government is anticipating switching to Government Pricing Model (GPM) in final RFP so this may change.

134. The library contains a series of rack elevation drawings referred to as "Hardware Design Documents" which are number 920-Txx-nnn. The documents provided do not provide the necessary insight into the hardware design or the hardware assembly. Each element below identifies the classes of missing hardware related documentation.

Element: Interconnection Diagram - The connection of power, networks, and other cabling.

ANSWER: Specific information on network, power, and cabling are considered sensitive information. The government provided appropriate documentation on

hardware configuration for the offeror to provide an adequate response to the RFP without compromising existing IT security requirements.

Network Architecture Design - A block diagram of all DMZ, VLANs, and other networks in use and their association with hardware and software processes. A document that delineates between the operational and development/test systems where appropriate and maps to the appropriate security and performance requirements.

ANSWER: Specific information on network, power, and cabling are considered sensitive information. The government provides appropriate documentation on hardware configuration for the offeror to provide an adequate response to the RFP without compromising existing IT security requirements.

Hardware Architecture Design - A narrative and accompanying drawings to present the concepts for operations, development, testing, monitoring, storage, high performance computing, virtual computing, and other design aspects. For example, does the system have dedicated hardware for software functions or virtual servers? Does the system use SAN or server based storage? Also provide the design decisions that led to the hardware being selected. Provide the mapping to the appropriate system-level requirements.

ANSWER: Hardware Architecture design can be found in DID 305 Segment Design Specification. Design decisions are not described in this documentation except to note what components changed from the previous release, 8.1. Under Release 8.1, end-of-service-life of a hardware item was removed or a better, cheaper replacement was chosen. <http://edhs1.gsfc.nasa.gov/waisdata/catalog/modnewcat.html>

Hardware Build Procedures - A document, supporting media, and processes to build each system from COTS products.

ANSWER: Hardware install procedures can be found in 914-TDA series of documentation. This documentation is on the EED-2 Technical Reference Library: go to Technical Documentation, and then Technical Documentation 914 Release notes where it is contained in a .zip file.

Hardware Description Document - For every unit in the system and for those identified in the 920 series documents, a description of the purpose of the hardware box.

ANSWER: This can be found in DID 305 Segment Design Specification. The purpose of the hardware components is described.

135. The library contains a collection of documents that identify the COTS software of each hardware unit for a subset of EED2 systems. These documents currently do not include any mission software and they do not provide insight into how to configure the COTS products. These are required for any developer to produce a set of scripts, procedures, and documents that can be used to faithfully build any unit in any system. The missing build procedures are identified by element.

Element: Operating System Install Procedures - The set of procedures, media, and tools to establish the correct operating system(s) on the unit

ANSWER: OS and COTS install procedures for Release 8.2 can be found in 914-TDA-541 Rev02. This documentation is on the EED-2 Technical Reference Library: go to Technical Documentation, and then Technical Documentation 914 Release notes where it is contained in a .zip file.

Software Install Procedures - The set of procedures, media, and tools to configure the system to work in its intended environment. This includes setting IP network parameters, LDAP settings, etc.

ANSWER: SDPS Release 8.2 installation procedures are described in 914-TDA-544. All installations for subsequent Test Executables and Patches are described in subsequent 914 documentation. Historical 914 documentation is provided back to the beginning of the EED contract. This documentation is on the EED-2 Technical Reference Library: go to Technical Documentation, and then Technical Documentation 914 Release notes where it is contained in a .zip file.

System Configuration Procedures - The set of procedures, media, and tools to configure the system to work in its intended environment. This includes setting IP network parameters, LDAP settings, etc.

ANSWER: OS and COTS install procedures for Release 8.2 can be found in 914-TDA-541 Rev02. This documentation is on the EED-2 Technical Reference Library: go to Technical Documentation, and then Technical Documentation 914 Release notes where it is contained in a .zip file.

System Security Procedures - The set of procedures, media, and tools to configure the system to be compliant with information assurance security requirements. This includes renaming "root", locking down ports, configuring firewalls, etc.

ANSWER: SDPS - DID 611 - Mission Operations Procedures

136. The documentation describing the operations of the data centers is limited and requires additional clarification for any contractor to submit a quality proposal. The draft SOW item 3.7 Operations Support (WBS 7) identifies a requirement for on-site operations, on-site system administration, on-site maintenance, and other related activities that currently should have more definition. Fielded NASA systems typically have a collection of documents that identify the required activities and processes to be performed while maintaining the system. Table 3 provides examples of the documentation that would make the SOW clearer. Backup/Restore Procedures - Processes to store system configuration and operational data and to restore in the event of a failure.

ANSWER: These procedures are detailed in DID 611 - Mission Operations Procedures

Element: Security Incident Reporting - Processes to escalate security or failure incidents

ANSWER: As noted in DID 611, Mission Operations Procedures, reporting of security breaches shall be in accordance with Security of Information Technology; NASA Procedural Requirements (NPR) 2810.1.

Element: Preventative Maintenance Procedures - Processes that describe routine, regular maintenance activities that prevent and/or detect operational failures

ANSWER: These procedures are detailed in DID 611 - Mission Operations Procedures

Help Desk Procedures - The checklist of actions in response to common user issues for help desk personnel

ANSWER: The DAAC help desk procedures are not the responsibility of this contract. Working with the DAAC help desk is described in DID 611 - Mission Operations Procedures.

Element: LRU / Unit Replacement/Repair Procedures - Procedures for performing potentially disruptive maintenance activities. Power Up / Power Down Procedures - The procedures to gracefully shutdown and bring up the system in response to emergencies, loss of power, and planned maintenance.

ANSWER: These procedures are detailed in DID 611 - Mission Operations Procedures

137. A contractor submitting a proposal for software design would also expect to see more documentation than what is currently provided in the library. Specific documents and their format may vary based on the software processes employed, but industry best practices typically produce a common set of artifacts as listed below. Software Requirement Specification (SRS) - Mapping and specialization of system requirements.

ANSWER: Level 3 Requirements are documented in the ECS SDPS FPRS, Level 3 to 4 mappings and Level 4 mappings are in the Project software system (Jama). Access to the postings can be provided upon request.

Element: Software Design Document (SDD) - A collection of artifacts produced following standard practices using COTS tools that represent the system by following some methodology. This includes □ **Database schema**

- **Software models – Object, Transaction, State, Deployment diagrams**
- **Flow charts**

ANSWER: For SDPS this is contained in the ECS SDPS Documentation Package. Specifically DID 305 Segment Design Specification and DID 311 Database Design and Schema Specifications.

Element: Software Technical Documentation - Documentation that describes the code

- **API**
- **Javadoc**
- **Algorithm descriptions**

ANSWER: For SDPS, documentation that describes the code is contained in the Tickets, which describe major functionality. As components have continued to be sustained, other changes are described in sets of NCRs (nonconformance reports) that aggregate into a delivered patch or test executable. Patches and Test Executables are listed in the Release 8.2 Custom Software Tracking page. Please check the EED-2 Technical Reference Library for updated information. ECHO APIs are located from the Earthdata website <https://earthdata.nasa.gov/echo>. URS APIs are located from the Earthdata wiki

<https://wiki.earthdata.nasa.gov/display/URSFOUR/EOSDIS+URS4+%28User+Registration+System%29+Home>

Element: Software User Documentation - Tutorials, Guides

ANSWER: For SDPS this is contained in the ECS SDPS Documentation Package. Specifically DID 625 Training Material. ECHO user documentation is located from the Earthdata website <https://earthdata.nasa.gov/echo>. URS user documentation is located from the Earthdata wiki

<https://wiki.earthdata.nasa.gov/display/URSFOUR/EOSDIS+URS4+%28User+Registration+System%29+Home>

Element: Software - The software itself.

ANSWER: Per the Office of Chief Council and the Office of Patent Council at Goddard Space Flight Center, we cannot post the source code.

138. The Earth Science Data and Information Systems Project's Contract Data Requirements Document for EED2 dated January 22, 2014, identifies a list of documents that would be beneficial to understanding the EED2 scope of work. In addition, these CDRLs are beneficial to identifying the titles of specific engineering artifacts that would be helpful if they were made available through the NASA EED2 library. These CDRL items are listed in Table 5. EED2-SMDP-2 - Software Maintenance and Development Plan. EED2-HMDP-3 - Hardware Maintenance and Development Plan.

ANSWER: The EED SMDP has been posted to the wiki and can be found under: <https://eed2home.ems.eosdis.nasa.gov/cm/wiki/?id=1361>.

Element: EED2-SQAP-4 - Software Quality Assurance Plan

ANSWER: The EED SQA Plan will be posted to the EED-2 Technical Reference Library.

Element: EED2-SMP-7 - EED2 Security Management Plan

ANSWER: There is no EED-2 Security Management Plan. This document is planned to be submitted once EED-2 is awarded by the new contractor. The Security Management Plan will be requested after award.

Element: EED2-CMP-19 - Configuration Management Plan

ANSWER: The EED CMP Plan will be posted to the EED-2 Technical Reference Library.

Element: EED2-EDP-23 - ECS SDPS Documentation Package

ANSWER:

SDPS Mission Operation Procedures	http://edhs1.gsfc.nasa.gov/waisdata/toc/611eed001_Rev02to c.html
EED Software Maintenance and Development Plan	https://eed2home.ems.eosdis.nasa.gov/cm/wiki/?id=1361
EED Hardware Maintenance and	https://eed2home.ems.eosdis.nasa.gov/cm/wiki/?id=1361

Development Plan	
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Element: ECS SDPS Documentation Package - consists of multiple documents

ANSWER:

423-46-01, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System Science Data Processing System	This document is on the wiki, but is in parts:EMD_FPRS_Sec1-5_RevD.pdf, EMD_FPRS_Sec6-7_RevD.pdf, EMD_FPRS_appxtextA-C_RevD.pdf, EMD_AppxC_table_RevD.pdf, EMD_AppxC_table_C-1_Ingest_RevD.pdf, EMD_AppxC_table_C-2_Distribute_RevD.pdf, EMD_AppxC_table_C-3_Archive_and_Granules_RevD.pdf This document is being revised to reflect ECS 8.2 as-built. I will post a draft update when it becomes available, and when the update is baselined in our CM I will post that as well.
· DID 305 Segment Design Specification	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/305eed001_Rev02.html
· DID 311 Database Design and Scema Specifications	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/311eed001_Rev02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/311eed002_Rev02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/311eed003_Rev02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/311eed005_Rev02.html
· DID 333 SDP Toolkit User's Guide	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/333eed001_Rv01.html
· DID 609 Operation Tool Manual	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/609eed001_Rev02.html
· DID 611 Mission Operations Procedures	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/611eed001_Rev02.html

· DID 618 Replacement Part List and Spare Parts List	This document is no longer required.
· DID 625 Training Material - 5 parts	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/625eed001_Re v02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/625eed002_Re v02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/625eed003_Re v02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/625eed004_Re v02.html
	http://edhs1.gsfc.nasa.gov/waisdata/eed/html/625eed005_Re v02.html
· ECS Verification Data Base (VDB)	No longer exists. Superseded by JAMA/JIRA.

139. What Contract Historical Data is available from the current incumbent contractor?

ANSWER: Task and Delivery orders issued under NNG10HP02C have been provided in the EED-2 Procurement Library.

140. Will there be more on the tech refresh schedule?

ANSWER: The schedule will be provided in the property list posted with the Final RFP.

141. Section L, Page 102-103, is the Small Business goal correct?

ANSWER: The Small Business goals presented in Section L, Page 102-103 are correct.

142. Does RTO1 include DAAC Operations?

ANSWER: RTO1 does not require labor for DAAC operations support. However, that work is within the scope of the contract.

143. Is there a metric on trouble tickets per month?

ANSWER: For SDPS release 8.1 (the previous) and 8.2 (the current SDPS release), the Government has posted "SDPS Release 8.1 Tracking" and 'SDPS Release 8.2

Tracking' which shows the history of patches, test executables, and the original release. The CCRs noted in the charts are contained in the CCRs by year pages and are Tar'd.

Activity associated with COTS software is shown in the SDPS COTS Software Tracking page. A history of COTS software CCRs are shown. The CCR numbers are listed and the PSR documents are available via the EED-2 Technical Reference Library.

144. G.7 and G.8, Attachment D, and Attachment L; in addition to the lists of Installation Accountable Government Property (IAGP) for ASDC, ECHO, URS, and Coherent Web, the DRFP contains lists of Government Furnished Property (GFP) at Raytheon's Riverdale facility (for ECHO and EDF) and at the LPDAAC and the NSIDC.

Given that the LPDAAC and NSIDC are Government facilities and that the successful offeror will not have control over those facilities, it would seem that equipment at the LPDAAC and NSIDC should be on the IAGP lists rather than on the GFP lists. Please clarify.

ANSWER: The LPDAAC and the NSIDC are not NASA facilities, therefore the property for these locations are NOT contained in the Installation Accountable Government Property Lists. On the EED contract there are personnel residing at those sites that facilitate interactions between the site engineers and the Prime's engineers involving property acquisition, auditing, delivery and disposal.

145. L.17(a)(2) and L.20.1 define a significant subcontractor as one expected to exceed 25% of a proposed RTO estimate.

Please clarify that this definition should be applied independently for each of the three RTOs, as opposed to being applied for the aggregate estimate of all three RTOs.

ANSWER: This definition should be applied independently for each of the three RTO's.

146. What are the problem areas over the last 5 years?

ANSWER: The RTOs are structured to show what we hope to accomplish. From the program standpoint, IT security is very important.

147. To reduce risk of transition is there a way for us to propose providing all hardware for the development environment?

ANSWER: The Offeror may propose an alternative approach to transition.

148. Is the Government satisfied with the amount of innovation from their current contractor?

ANSWER: Yes.

149. Is the Government currently using any technology for the advanced visualizations of large data sets?

ANSWER: The Global Image Browse System (GIBS) and Worldview are the primary EOSDIS-wide data visualization tools provided by ESDIS.

150. Has the Government researched the benefits of, or implemented any advanced technologies (for example, GPU technologies for massively parallel processing) within EOSDIS?

ANSWER: The Government looks at these types of things frequently. We have a studies and prototype section under this contract. We also look at alternative technology.

151. ON RTO1, can you describe the minimum level of maintenance support with regard to budget, repair rate, etc.?

ANSWER: The Government does not have a published work rate but the offeror can check the CCRs and NCRs for what happened in the past.

152. Are there big updates coming after transition?

ANSWER: There will be no big updates.

153. Will system maturity drive what you do in the future?

ANSWER: The system is very mature and stable. Currently, even newer things like User Registration and ECHO are very reliable.

154. Is 42% for small Business?

ANSWER: No, 42% is not the recommended Small Business (SB) subcontracting goal under EED-2. The recommended small business subcontracting goals are shown below and the recommended Total SB subcontracting goal is 25.0%.

The goals for the categories of SDB, WOSB, HBCU/MI, HUBZone, VOSB, and SDVOSB are not in addition to the SB recommended goal. The SB recommended goal of 25% includes these subcategories. The recommended goals for SDB, WOSB, HBCU/MI, HUBZone, VOSB, and SDVOSB are separate distinct recommended goals for these categories, but are included within the total SB recommended goal of 25%.

As an example, where an offeror's proposes a single subcontractor that is a SB, SDB, WOSB, and HUBZone small business, this subcontractor's performance would contribute to each of the distinct categories (SDB, WOSB, and HUBZone) and would also contribute to the SB goal concurrently.

Small Business Type	Recommended Goals
Small Business (SB)	25.0%
Small Disadvantaged Business (SDB)	5.0%
Woman Owned Small Business (WOSB)	4.5%
Historically Black Colleges and Universities and Minority Institutions (HBCU/MI)	1.5%
HUBZone Small Business (HUBZone)	1.0%
Veteran Owned Small Business (VOSB)	4.0%
Service Disabled Veteran Owned Small Business (SDVOSB)	1.0%

155. Cost is important. Will you consider removing the cost of the transition plan from the cost evaluation?

ANSWER: The transition plan is not being evaluated as part of the overall cost. Cost is included so the Government recognizes if the offeror understands the requirement.

156. What type of documentation will be required to satisfy the verification that the offeror's EVMS complies with ANSI/EIA?

ANSWER: The offeror's have to show the Government that their EVMS system is compliant with ANSI/EIA Standard. NASA FAR Supplement 1852.234-1 and 1852.234-2 provide further information as to what is needed.

157. What class of software is on EOS?

ANSWER: The software is Class D but that is not a requirement in NPR 7120.2A.

158. Will you consider a change in NAIS code?

ANSWER: No. This procurement will use the NAIS code established; 541512.

159. Have you eliminated the possibility of the procurement being a set aside?

ANSWER: This procurement will not be a set-aside. It is a full and open competition.

160. Is there a project underway to standardize the metadata format mapping between external partners metadata formats and the ECHO metadata format?

ANSWER: We have standard metadata now for particular discipline datasets. The Government is trying to pull them together.

161. How is CM released?

ANSWER: Weekly CRV's decide the priority of how CM is released.

162. Regarding system evolution, do you see major architecture changes or small stuff?

ANSWER: No major architecture changes are envisioned. The Government would like to take advantage of new technology and keep up with what's current. We don't expect to start from scratch as the system has evolved.

163. How do you get equipment?

ANSWER: The prime contractor acquires equipment as part of its maintenance of the system.

164. Do you know of new spacecraft to be added?

ANSWER: We know there will be but the RTOs are based on past instruments for DAACs. You can check nasa.gov for new upcoming missions.

165. Any information on the number of people needed?

ANSWER: The number of people needed depends on your approach.

166. Is there any way to tell what the work will be?

ANSWER: The offeror can check the CCEs as that shows past work flows.

167. Any high performance computing requirements in the future?

ANSWER: No. Most processing is done at SIPS and outside our scope.

168. Are there users you'd like to get?

ANSWER: We are always ready to accommodate new users. Our users generally have been parties interested in earth science data whether in the government, industry or academia, but the community of users is expanding further as our data has become more useful and available.

169. Regarding moving the system from Riverdale, how big is it?

ANSWER: There are diagrams in the EED-2 Technical Reference Library that document the system.

170. Will there be a plug number for travel?

ANSWER: Yes, it will be provided in Final RFP.

172. For the proposal, are we bidding on single tasks?

ANSWER: Yes and how you plan to accomplish transition.

173. Is most of the contract run from GSFC or remote locations?

ANSWER: Riverdale is the hub. The DAACs are separate contracts and the incumbent has reps at each facility and provides a detailed description of how the system works and who does what.

174. Where is the GFE? Is it traditionally close to GSFC?

ANSWER: Not all of the GFE is near GSFC. Property for the EED contract is currently located at the Prime's facility in Riverdale, MD, at Goddard Space Flight Center in Buildings 32 and 13, at The LPDAAC in Sioux Falls, SD, at the NSIDC in Boulder, CO, and at the LaRC DAAC in Langley, VA. The incumbent contractor purchases the equipment unless the Government can obtain it less expensively.

175. Is there space on-site for contractor personnel?

ANSWER: There is some space but not of any significance.

176. What are some of the challenges facing the EOSDIS System Architecture from a Future Mission Support perspective? Will the EED-2 contractor be required to make significant changes to the architecture?

ANSWER: There was significant evolution in 2005. Since then, there has been surgical evolution. New missions such as ICESat-2 will require changes.

177. Is the Government planning to add a Key Personnel Clause to the final RFP?

ANSWER: The Key Personnel Clause will not be added to the final RFP.

178. Please clarify the scope of the position qualifications requirement. Is it only to include those that will be used to charge as Direct labor? Additionally, will the Government consider excluding the Position Qualifications from the Page Limit for Mission Suitability?

ANSWER: For the Position Qualification requirement, only include those that will be used to charge as Direct Labor. The Position Qualifications Page Limit is excluded from the Mission Suitability Page Limitation.

179. Since Section L only requires an overview of the Offeror's property management system, how is the Government going to evaluate a significant subcontractor's proposed property management system? If property is to be managed only by the Offer, why is it necessary to evaluate the effectiveness of a significant subcontractor's proposed property management system?

ANSWER: The Offeror only needs to provide an overview of the property management system for significant subcontractors that will be furnished property or material. Please clearly indicate that they are a significant subcontractor. The Government, as stated in Section M, will evaluate the reasonableness and effectiveness of the primes and significant subcontractor's proposed property management system.

180. Please clarify the WBS level discrepancies across the listed exhibits to ensure the proper WBS level is included in each proposal exhibit.

ANSWER: The Government is working this issue. You will see updated exhibits with the Final RFP.

181. Is it acceptable to summarize the company's record, or is the Government requiring that the Offeror provide actual copies of their company's OSHA reports for the past three years? If copies of the company's OSHA reports are required, is all of this required safety and health history information excluded from the page Limit for the Past Performance Volume?

ANSWER: The offeror can summarize the company's OSHA record. The OSHA report is a part of the offerors Safety and Health Plan and is excluded from the page limitation.

182. There would not be WBS levels between Level 1 and Level 2, so wouldn't the Level 1 WBS on an RTO by default summarize all of the WBS Level 2 for an RTO?

ANSWER: Yes. WBS Level 1 is the summary of WBS Level 2.

183. I would like to know if you can provide bidders with the documentation that is referenced in the EED Task 02 SOW for providing ECS/ECHO sustaining engineering and Continuous Evolution, Rev 5 dated 03/28/2013:

1.2.2.2 Reference Documents has a long list, many of which we were unable to find in the EED-2 Technical Reference Library, for instance:

ECHO Requirements Tickets

ANSWER: We no longer implement with tickets. They are available for historical purpose only. Sprints are defined by NCRs. The NCRs/sprint list will be published.

CP-SCM-423-EDF Contingency Plan for the EOSDIS Development Facility –

Answer: This is Sensitive But Unclassified and it not available for public review.

PV-SCM-423-ECHO – Project Acceptance and Implementation Variances (and others)

Answer: This is Sensitive But Unclassified and it not available for public review.

184. The Task description itself references trade studies looking forward 3 to 5 years, and we are interested in understanding which trade studies have been delivered and if they will be made available to bidders.

Answer: All studies published since the beginning of EED contract will be published to the EED-2 Technical Reference Library.

185. There are references to the SMDP and HMDP, can bidders have access to the most recent versions of these documents.

Answer: These have been posted to the EED-2 Technical Reference Library under Technical Documentation then Technical Documentation – Hardware and Software Maintenance and Development Plans.

186. If there are Requirements Tickets for Reverb, PUMP, and the CWIC Client, can bidders have access to them?

Answer: We no longer implement with tickets. Sprints are defined by NCRs. The NCRs/sprint list will be published. Requirements for the CWIC Client are prototype activities and will not be published in this forum.

187. Where is SOW 1.2.2.2 Reference Documents located?

Answer:

- DID 305 Segment Design Specification
http://edhs1.gsfc.nasa.gov/waisdata/eed/html/305eed001_Rev02.html
- DID 311 Database Design and Database
 - **311-EED-001, Rev 02, Release 8.2 INGEST Database Design and Schema Specifications for the EED Contract (9/13)**
Formats available : Abstract (1.5 KB) PDF (781.2 KB)
 - **311-EED-002, Rev 02, Release 8.2 Order Manager Database Design and Schema Specifications for the EED Contract (9/13)**
Formats available : Abstract (1.5 KB) PDF (937.6 KB)

- **311-EED-003, Rev 02, Release 8.2 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EED Contract (9/13)**
Formats available : [Abstract](#) (1.6 KB) [PDF](#) (793.8 KB)
- **311-EED-005, Rev 02, Release 8.2 AIM Inventory Database Design and Schema Specifications for the EED Contract (9/13)**
Formats available : [Abstract](#) (1.6 KB) [PDF](#) (2.3 MB)
- DID 333 SDP Toolkit User's Guide – there is a rev 2 for this, but not on EDHS1 yet: http://edhs1.gsfc.nasa.gov/waisdata/eed/html/333eed001_Rv01.html
- DID 609 Operation Tool Manual
http://edhs1.gsfc.nasa.gov/waisdata/eed/html/609eed001_Rev02.html
- DID 611 Mission Operations Procedures
http://edhs1.gsfc.nasa.gov/waisdata/eed/html/611eed001_Rev02.html
- DID 625 Training Material
- **625-EED-001, Rev 02, Release 8.2 Training Material for the EED Contract Volume 1: Course Outline (9/13)**
Formats available : [Abstract](#) (1.6 KB) [PDF](#) (71.7 KB)
- **625-EED-002, Rev 02, Release 8.2 Training Material for the EED Contract Volume 2: Problem Management (9/13)**
Formats available : [Abstract](#) (1.6 KB) [PDF](#) (1.3 MB)
- **625-EED-003, Rev 02, Release 8.2 Training Material for the EED Contract Volume 3: Data Pool Ingest (9/13)**
Formats available : [Abstract](#) (1.4 KB) [PDF](#) (3.8 MB)
- **625-EED-004, Rev 02, Release 8.2 Training Material for the EED Contract Volume 4: Data Distribution (9/13)**
Formats available : [Abstract](#) (1.5 KB) [PDF](#) (5.2 MB)
- **625-EED-005, Rev 02, Release 8.2 Training Material for the EED Contract Volume 5: Archive Processing (9/13)**
Formats available : [Abstract](#) (1.5 KB) [PDF](#) (2.5 MB)
- ECS Verification Data Base (VDB) – The VDB has been superseded by the use of a new tool (JAMA). This document is kept for historical purposes only.
- ECHO Success Criteria – this has been mapped to NCRs since ECHO version 10.
- ECHO Hardware/Software Maintenance Acquisition Plan – these have been posted to the wiki under Technical Documentation then Technical Documentation – Hardware and Software Maintenance and Development Plans, they cover both SDPS and ECHO
- ECHO Software Architecture Document - a good description of the architecture can be found here:
<https://wiki.earthdata.nasa.gov/pages/viewpage.action?pageId=26543757>

- ECHO As-built COTS Software/Hardware Configuration – on wiki – look under Technical Documentation, then As built Host Interrogations, then ECHO As built Configurations
- ECHO Release Notes – we have current ops/dev/test Releases available at <https://wiki.earthdata.nasa.gov/display/echo/ECHO+release+information>. The historic NCR/ECHO sprint map will be published to the RFP technical website.
- ECHO Forms Specification -[ECHO Guide 005: ECHO Forms Specification](#)
- ECHO Requirements Tickets – we do not implement with tickets. Available for historical purpose only. Sprints are defined by NCRs. The NCRs/sprint list will be published.
- ECHO Conceptual and Physical Data Model - <https://wiki.earthdata.nasa.gov/display/echo/ECHO+Data+Model>
- ECHO Regression Test Report – the ECHO/Reverb/PUMP regression test list will be published.
- Ingest User Guide [ECHO Guide 002: ECHO REST Ingest Guide](#)
- Ingest Supplementary Specification – this is legacy from a pre-EED baseline is no longer applicable. Available for historical purpose only.
- Data Provider's User Guide [ECHO Guide 003: ECHO Data Partner's User Guide](#)
 - Client User Guide [ECHO Guide 004: ECHO Client Partner's User Guide](#)
 - PUMP User Guide <https://api.echo.nasa.gov/pump/faces/about.jsp>
 - ECHO Workload Specification – this document will be published to the RFP technical website.

ECHO Operations Processes, Policies and Procedures – no longer applicable.
Operations concepts are published at: <https://earthdata.nasa.gov/library/echo-opscon-documents>

Other ECHO info located on Earthdata:

- [ECHO Guide 001: ECHO REST Search Guide](#)
- [ECHO Guide 002: ECHO REST Ingest Guide](#)
- [ECHO Guide 003: ECHO Data Partner's User Guide](#)
- [ECHO Guide 004: ECHO Client Partner's User Guide](#)
- [ECHO Guide 005: ECHO Forms Specification](#)
- [ECHO Guide 006: Test Track Pro Training Guide](#)
- [ECHO Guide 010: ACLs & Group Management How-To Guide](#)

